

20040701.ba v03_n672.bam.20040701

>From ???@??? Thu Jul 1 00:00:54 2004 +0000
Message-Id: <200407010500.i6150TSW010311@sco.theporch.com>
Date: Thu, 1 Jul 2004 00:00:14 CDT
From: Old Tube Radios <boatanchors@theporch.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BOATANCHORS digest 3672

BOATANCHORS Digest 3672

Topics covered in this issue include:

- 1) Re: Protecting a 1.5 V Filament String
by "Arden Allen" <gumbear@pacbell.net>
- 2) RE: Protecting a 1.5 V Filament String
by "tfrobase" <tfrobase@kitparts.com>
- 3) RE: Protecting a 1.5 V Filament String
by "tfrobase" <tfrobase@kitparts.com>
- 4) Drake L7 info
by "Kevin Thomas" <kg9il@sbcglobal.net>

Message-ID: <004401c45ebb\$f8a73720\$5ae47443@KB6NAX>
From: "Arden Allen" <gumbear@pacbell.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Protecting a 1.5 V Filament String
Date: Wed, 30 Jun 2004 09:04:43 -0700
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> When at 1.5 volts, they should be Hi-Z.

There will be some current flow at 1.5 volts but not enough to throw the regulator off. Depending on the rating of the diodes and the current capability of the regulator you could get up to 3 volts across the three diodes. Using the diode string to trigger an SCR would be a more effective "crowbar". You can adjust the sensitivity by shunting to ground the small 1.5V forward current with a resistor. Fuse the input to the regulator to prevent crispies if it should fail.

Arden Allen
KB6NAX

From: "tfrobase" <tfrobase@kitparts.com>

To: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: Protecting a 1.5 V Filament String
Date: Wed, 30 Jun 2004 19:52:03 -0500
Message-ID: <00c801c45f05\$a36b9b30\$0c01010a@kitparts.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Several years ago I built some power supplies for GRC-9 receivers for a Scouting Merit badge for my sons troop and simply used a dropping resistor and forward biased 2 silicon diodes, it worked fine ... Tom, N3LLL

-----Original Message-----

From: owner-boatanchors@theporch.com
[mailto:owner-boatanchors@theporch.com] On Behalf Of David Stinson
Sent: Wednesday, June 30, 2004 8:50 AM
To: Old Tube Radios
Subject: Protecting a 1.5 V Filament String

I'm working on a battery-powered radio that was used by the Womens Airforce Service Pilots (WASPs) during WWII. I'll be using a regulator to drop 6 volts down to 1.5 volts for the receiver filaments. I want to install protection on the fil. string in case of regulator failure. 1.8 and 2-volt zeners that still have leads on them don't appear to be available and I don't want to go any higher.

Regular silicon power diodes don't conduct until they get approximately .6-.7 volts forward bias. If I place three in the "forward" direction, in series to ground from the 1.5 volt buss, any voltage excursion above 1.8-2.1 volts should be shunted to ground. When at 1.5 volts, they should be Hi-Z. Your opinions?

Dave S.

From: "tfrobase" <tfrobase@kitparts.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: Protecting a 1.5 V Filament String
Date: Wed, 30 Jun 2004 19:57:19 -0500

Message-ID: <00c901c45f06\$5c3bec50\$0c01010a@kitparts.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Sorry hit the send prior to finishing my thought, getting old I guess!

Several years ago I built some power supplies for GRC-9 receivers for a Scouting Merit badge for my sons troop and simply used a dropping resistor and forward biased 3 silicon diodes and connected to a pass transistor, the drop across the pass transistor gave me exactly 1.5 volts ... Tom, N3LLL

From: "Kevin Thomas" <kg9il@sbcglobal.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Drake L7 info
Date: Wed, 30 Jun 2004 20:48:51 -0500
Message-ID: <NFBBKMLIMLCGJJOCAOFEGENFCFAA.kg9il@sbcglobal.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello all,

A big THANKS to all that responded to my inquiry on the Drake L7 info. All info has been passed on to the gentleman who needed it.

THANKS!!!!!!!

Kevin
KG9IL

End of BOATANCHORS Digest 3672
